Philips
CRT monitor

19"
real flat SXGA

109B75

# digitalized CRT display for superb computainment

## with lead-free design

With a Digital Deflection CPU, High Bright hot key for brightness control, high resolution SXGA performance, a big screen that displays more and lead-free design, this 109B7 CRT monitor delivers an exciting computainment experience.

### Outstanding front of screen performance

- Philips breakthrough advanced Digital Deflection CPU
- High Bright Hot Key instantly adjusts brightness levels
- SXGA 1280 x 1024 resolution for sharper display
- Real flat CRT for natural, distortion and glare-free display
- Easy-on-the-eyes high-bright, high-contrast tube
- sRGB ensures color matching between display and printouts

### Great convenience

- Display more images and content without scrolling
- Compatibility with PC, Mac and workstation platforms
- Easy, user friendly plug-and-play installation

### Green design

- Lead-free design safeguards our environment
- Lower power consumption than the industry average
- TCO'03 guarantees the highest safety and ergonomic standards

PHILIPS
sense and simplicity

CRT monitor
19" real flat SXGA

# 109B75/27

## Specifications

### Picture/Display
- Display screen type: Real Flat picture tube
- Panel Size: 19"/ 46 cm
- Phosphor: P22
- Recommended display area(mm): 355 x 265 mm
- Recommended Display Area(inch): 14" x 10.4"
- Dot pitch: 0.25 mm
- Dot Pitch (horizontal): 0.21 mm
- White Chromaticity, 5500K: x = 0.332 / y = 0.347
- White Chromaticity, 6500K: x = 0.313 / y = 0.329
- White Chromaticity, 9300K: x = 0.283 / y = 0.297
- Maximum Resolution: 1600 x 1200 @ 73 Hz
- Recommended Resolution: 1280 x 1024 @ 85 Hz
- Factory Preset Modes: 8 modes
- Factory Preset Mode: 640 x 480 @ 60 Hz, 720 x 400 @ 70 Hz, 800 x 600 @ 75 Hz, 800 x 600 @ 85 Hz, 1024 x 768 @ 75 Hz, 1024 x 768 @ 85 Hz, 1280 x 1024 @ 75 Hz, 1280 x 1024 @ 85 Hz
- Factory Preload Modes: 16 modes
- Video Dot Rate: 180 MHz
- Horizontal Scanning Frequency: 30 - 92 kHz
- Vertical Scanning Frequency: 50 - 160 Hz
- Recommended Refresh Rate: 85 Hz
- Screen enhancement: Anti-glare Polarizer, Anti-Reflection, Anti-Static, High Brightness, High Contrast
- Digital deflection
- sRGB
- GTF

### Connectivity
- Cables: D-sub Video Cable, Power Cord
- Cable Connection: AC Power in, D-sub
- Sync input impedance: 2.2k ohm
- Video input impedance: 75 ohm
- Video input signal levels: 0.7 Vpp
- Video Sync Input Signal: Composite Sync, Separate Sync
- Video Sync Polarities: Positive and Negative

### Convenience
- Convenience Enhancements: Menu Languages, On-screen Display
- Monitor Controls: Bright Direct Access, Contrast Direct Access, High Bright Hotkey, Left/Right, Menu, Power On/Off, Up/Down
- OSD Languages: English, French, German, Italian, Spanish, Portuguese, Korean, Simplified Chinese
- Plug & Play Compatibility: DDC 2B, sRGB, Windows 98/ME/2000/XP
- Regulatory Approvals: CE Mark, FCC-B, UL, CSA, SEMKO, MPR-II, Low Emission, TÜV/GS, TÜV Ergo, FDA, CCC
- Swivel: +/- 90°
- Tilt: -5° to 25°

### Accessories
- Included Accessories: AC Power Cord
- User Manual

### Dimensions
- Box dimensions (W x H x D): 494 x 434 x 534 mm
- Box dimensions in inch (W x H x D): 19.45 x 17.09 x 21.02 inch
- Set dimensions (W x H x D): 439 x 422.5 x 457 mm
- Set dimensions in inch (W x H x D): 17.28 x 16.63 x 18 inch
- Set weight: 20 kg
- Set weight (lb): 44 lb
- Weight incl. Packaging: 22.9 kg
- Weight incl. Packaging (lb): 9.02
- Temperature range (operation): 0°C to 35°C
- Temperature range (storage): -25°C to 65°C

### Power
- Consumption: 63 W (Typical)
- Off Mode: around 1 W
- Power LED indicator: Off - Amber, Operation - green
- Power supply: Built-in, 90-264 VAC, 50/60 Hz

## Product highlights

### Digital Deflection CPU
*An exclusive Philips innovation – the world's first one-chip CRT solution – combines the deflection and the Microcontroller in a single chip to process and control input sync digitally. This innovative technology prevents electronic noise that can harm display quality, reduces display jitter and improves geometry for better front of screen performance.*

### High Bright Hot Key
*A feature that delivers instant brightness adjustment to the ideal level for viewing text, Internet, game or multimedia applications, providing comfortable viewing and an enhanced experience for each type of application.*

### SXGA, 1280 x 1024 resolution
*For graphics monitors, the screen resolution signifies the number of dots (pixels) on the entire screen. For example, a 1280-by-1024 pixel screen is capable of displaying 1280 distinct dots on each of 1024 lines, or about 1.3 million pixels.*

### Real flat CRT display
*Philips advanced flat CRT technology reduces glare and reflection more efficiently than a conventional CRT. The special high-bright, high-contrast shadow mask helps maintain sharper focus and eliminates 'color blooming' compared to standard tubes. It displays images on a monitor that look like images on paper: Viewing the image is more comfortable. Straight lines are straight. Finding a reflection-free viewing position is much easier. This adds up to reduced eyestrain for a comfortable viewing experience.*

### High-bright-high-contrast tube
*A CRT tube designed to increase display brightness and contrast by increasing the CRT ray gun's beam current.*

### sRGB ready
*sRGB is an industry standard that ensures the best possible match between the colors displayed on your screen and those in your printouts.*

### Large viewing area
*Viewing area is the visible portion of a monitor screen available for displaying data.*

### Platform compatibility
*The ability to work with a variety of platforms; Philips monitors are compatible to connect with PCs and workstation by employing a VGA connection and connect with Macintosh.*

### Lead-free
*Lead-free display products are designed and produced in compliance with strict European Community Restriction of Hazardous Substances (RoHS) standards that restrict lead and other toxic substances that can harm the environment.*

### Energy efficiency
*Reduction of the electrical power required to operate a device to achieve real savings.*

### TCO '03 compliance
*A TCO (Swedish Confederation of Professional Employees) standard even more stringent than MPR-II for safety and ergonomics, especially concerning alternating electric fields (AEF).*

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